

Listing of Claims:

1. (Original) A drop ejection device, comprising: a flow path in which fluid is pressurized for ejecting a drop from a nozzle opening, and a deaerator including a fluid reservoir region, a vacuum region, and a partition between the fluid reservoir region and the vacuum region, the partition including a wetting layer and a non-wetting layer and one or more channels extending through the wetting and non-wetting layers, wherein the wetting layer is exposed to the fluid reservoir region.
2. (Original) The device of claim 1, wherein the one or more channels have a width of about 0.1 micron to about 5 microns.
3. (Original) The device of claim 1, wherein the one or more channels are through-holes.
4. (Original) The device of claim 1, wherein the flow path and the deaerator are in a silicon material body.
5. (Original) The device of claim 1, wherein the wetting layer has a surface energy of about 40 dynes/cm or more as determined according to the dynes test.
6. (Original) The device of claim 1, wherein the wetting layer is a silicon material.
7. (Original) The device of claim 1, wherein the non-wetting layer has a surface energy of about 25 dynes/cm or less as determined according to the dynes test.
8. (Original) The device of claim 1, wherein the non-wetting layer is a polymer.
9. (Original) The device of claim 8, wherein the polymer is a fluoropolymer.

10. (Original) The device of claim 1, wherein the non-wetting layer has a thickness of about 2 microns or less.

11. (Original) The device of claim 1, wherein the wetting layer has a thickness of about 25 microns or less.

12. (Original) The device of claim 1, including a piezoelectric actuator.

13. (Original) The device of claim 1, wherein the nozzle opening has a width of about 200 microns or less.

14. (Original) The device of claim 1, wherein the device includes a plurality of fluid paths and a plurality of corresponding deaerators.

15-39. (Cancelled)